

**Supplementary Table:** Three multivariable cox regression analyses adjusted for clinical variables, imaging variables (abnormal ECG, hypertensive response, and abnormal NISI), and both clinical and imaging variables, respectively, to predict primary endpoints (death, MI and significant coronary stenosis).

| Variable                                        | HR (95% CI)           | P value |
|-------------------------------------------------|-----------------------|---------|
| <b>Clinical Variable</b>                        |                       |         |
| Age, years                                      | 0.98 (0.96- 1.01)     | 0.23    |
| Men, n(%)                                       | 0.93 (0.54- 1.59)     | 0.78    |
| Diabetes, n(%)                                  | 2.03(1.08 – 3.82)     | 0.028   |
| Hypertension, n(%)                              | 0.72 (0.37 - 1.38)    | 0.32    |
| Dyslipidemia, n(%)                              | 0.84 (0.44-1.61)      | 0.60    |
| Smoking, n(%)                                   | 0.76 (0.37- 1.59)     | 0.46    |
| Family history of CAD, n(%)                     | 0.95 (0.52- 1.72)     | 0.85    |
| History CAD, n(%)                               | 2.71 (1.37- 5.36)     | 0.004   |
| HEART score = 0, n(%)                           | 0.68 (0.34-1.12)      | 0.56    |
| HEART score = 1, n(%)                           | 0.87 (0.46-1.33)      | 0.34    |
| HEART score = 2, n(%)                           | 0.89 (0.49-1.47)      | 0.50    |
| HEART score = 3, n(%)                           | 1.44 (1.03-1.95)      | 0.02    |
| <b>Imaging variables</b>                        |                       |         |
| Presence of ECG change during stress test, n(%) | 3.12 (1.60 – 6.03)    | 0.001   |
| HTN response, n(%)                              | 0.11 (0.02 – 0.79)    | 0.096   |
| Positive Imaging stress test, n(%)              | 17.19 (10.05 – 29.38) | <0.0001 |
| <b>Clinical and imaging variables</b>           |                       |         |
| Age (years)                                     | 0.99 (0.97 - 1.01)    | 0.51    |
| Men, n(%)                                       | 0.91 (0.54 - 1.59)    | 0.75    |
| Diabetes, n(%)                                  | 2.38 (1.25 - 4.49)    | 0.008   |
| Hypertension, n(%)                              | 0.61 (0.30 - 1.23)    | 0.17    |
| Dyslipidemia, n(%)                              | 1.09 (0.55 - 2.17)    | 0.79    |
| Smoking, n(%)                                   | 0.89 (0.42 - 1.88)    | 0.75    |
| Family history of CAD, n(%)                     | 0.75 (0.39 - 1.41)    | 0.36    |
| Previous history CAD, n(%)                      | 2.75 (1.40 - 5.41)    | 0.003   |
| HEART score = 0, n(%)                           | 0.44 (0.31-0.89)      | 0.61    |
| HEART score = 1, n(%)                           | 0.92 (0.45 -1.33)     | 0.36    |
| HEART score = 2, n(%)                           | 0.98 (0.53 -1.42)     | 0.48    |
| HEART score = 3, n(%)                           | 1.32 (0.98 -1.57)     | 0.01    |

|                                                 |                     |         |
|-------------------------------------------------|---------------------|---------|
| Presence of ECG change during stress test, n(%) | 5.11 (2.61 – 10.01) | <0.0001 |
| HTN response, n(%)                              | 0.14 (0.18 – 1.05)  | 0.067   |
| Positive Imaging stress test, n(%)              | 16.4 (9.56 – 28.03) | <0.0001 |